

# Anti-Caveolin 1 (pY14) Antibody

Rabbit polyclonal antibody to Caveolin 1 (pY14)

Catalog # AP59979

## Product Information

Application	WB, IP
Primary Accession	<a href="#">Q03135</a>
Other Accession	<a href="#">P49817</a>
Reactivity	Human, Mouse, Rat, Pig, Bovine, Dog, SARS
Host	Rabbit
Clonality	Polyclonal
Calculated MW	20472

## Additional Information

Gene ID	857
Other Names	CAV; Caveolin-1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human Caveolin 1 (pY14). The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IP (1/10 - 1/100) IP~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

Name	CAV1
Synonyms	CAV
Function	May act as a scaffolding protein within caveolar membranes (PubMed: <a href="#">11751885</a> ). Forms a stable heterooligomeric complex with CAV2 that targets to lipid rafts and drives caveolae formation. Mediates the recruitment of CAVIN proteins (CAVIN1/2/3/4) to the caveolae (PubMed: <a href="#">19262564</a> ). Interacts directly with G-protein alpha subunits and can functionally regulate their activity (By similarity). Involved in the costimulatory signal essential for T-cell receptor (TCR)-mediated T-cell activation. Its binding to DPP4 induces T-cell proliferation and NF-kappa-B activation in a T-cell receptor/CD3-dependent manner (PubMed: <a href="#">17287217</a> ). Recruits CTNNB1 to caveolar membranes and may regulate CTNNB1-mediated signaling through the Wnt pathway (By similarity). Negatively regulates TGFB1-mediated activation of SMAD2/3 by mediating the internalization of TGFBR1 from

membrane rafts leading to its subsequent degradation (PubMed:[25893292](#)). Binds 20(S)- hydroxycholesterol (20(S)-OHC) (By similarity).

#### Cellular Location

Golgi apparatus membrane; Peripheral membrane protein. Cell membrane; Peripheral membrane protein. Membrane, caveola; Peripheral membrane protein. Membrane raft. Golgi apparatus, trans-Golgi network {ECO:0000250|UniProtKB:P33724} Note=Colocalized with DPP4 in membrane rafts. Potential hairpin-like structure in the membrane. Membrane protein of caveolae

#### Tissue Location

Skeletal muscle, liver, stomach, lung, kidney and heart (at protein level). Expressed in the brain

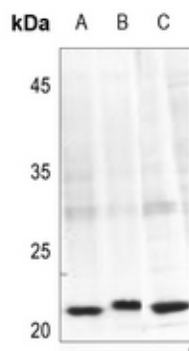
## Background

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KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human Caveolin 1 (pY14). The exact sequence is proprietary.

## Images

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Western blot analysis of Caveolin 1 (pY14) expression in SGC7901 (A), SGC7901-H2O2-5min (B), HEK293T (C) whole cell lysates.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.